IN THE CLAIMS:

Please amend claims 11 and 18 as follows:

11. The optical signal monitoring method of claim 9, wherein the non-linear compensation formula is expressed as:

$$\lambda = x + (x - X_1)(x - X_2)\sum_{m=0}^{M}\sum_{n=0}^{N} c_{m,n}x^m t^n Ax + (x - X_1)(x - X_2)P_{MN}(x,t) \ldots\ldots (10)$$

A1

where λ is the non-linear compensated wavelength, x is the linear approximated wavelength, X_1 is a first predetermined wavelength, X_2 is a second predetermined wavelength, M is an arbitrary integer, N is an arbitrary integer, $c_{m,n}$ is an $(m, n)^{th}$-order non-linear coefficient, and t is the product of the driving voltage related with x and the operation temperature of the filter.

18. The optical signal monitoring apparatus of claim 16, wherein the non-linear compensation formula is expressed as:

A2 Cont.

$$\lambda = x + (x - X_1)(x - X_2)\sum_{m=0}^{M}\sum_{n=0}^{N} c_{m,n}x^m t^n Ax + (x - X_1)(x - X_2)P_{MN}(x,t) \ldots\ldots (13)$$

where λ is the non-linear compensated wavelength, x is the linear approximated wavelength, X_1 is a first predetermined wavelength, X_2 is a second predetermined wavelength, M is an arbitrary integer, N is an arbitrary integer, $c_{m,n}$ is an $(m, n)^{th}$-order non-